AUSTRALIAN JOURNAL OF ZOOLOGY

QL
1
A865

VOLUME 6

MELBOURNE
1958

QL
1
A93
v.6-7
1958-59
c.3

AUSTRALIAN JOURNAL OF ZOOLOGY

A medium for the publication of results of original scientific research in zoology with special emphasis on the descriptive phases.

Published by the Commonwealth Scientific and Industrial Research Organization. Issued as material becomes available, 10/– per issue.

BOARD OF STANDARDS

The Board of Standards for this Journal is appointed by the Commonwealth Scientific and Industrial Research Organization and the Australian Academy of Science and consists of Professor J. G. Wood (Chairman), Dr. N. S. Noble (Editor), Professor J. S. Anderson, Professor Sir Macfarlane Burnet, Professor Sir Leslie Martin, and Professor W. P. Rogers.

WITHDRAWN
ALBERT R. MANN LIBRARY

ADVISORY COMMITTEE

Acceptance of papers for this Journal is in the hands of an Advisory Committee appointed by the Board of Standards and consisting of Dr. N. S. Noble (Chairman and Editor), Dr. H. G. Andrewartha, Dr. A. J. Nicholson, Mr. F. N. Ratcliffe, Professor W. P. Rogers, and Professor H. Waring.

All enquiries and manuscripts should be forwarded to:

The Editor,
Australian Journal of Zoology,
Commonwealth Scientific and Industrial Research Organization,
314 Albert Street, East Melbourne, C.2., Victoria

MELBOURNE

CONTENTS

NUMBER 1, MAY 1958

PAGE

Biological and Social Patterns in the Australian Bulldog Ants of the Genus *Myrmecia*. By J. Freeland 1

The Ecology of *Oncopera fasciculata* (Walker) (Lepidoptera: Hepialidae) in South Australia. V. Changes in the Environment of *O. fasciculata* Associated with the Development of County Grey for Agriculture. By P. E. Madge 19

The Testicular Rete Mirabile of Marsupials. By C. H. Barnett and C. W. Brazenor 27

Speciation in the Genus *Amytornis* Stejneger (Passeres: Muscicapidae, Malurinae) in Australia. By A. Keast 33

The Relationship between Seasonal Movements and the Development of Geographic Variation in the Australian Chats (*Epthianura* Gould and *Ashbyia* North (Passeres: Muscicapidae, Malurinae)). By A. Keast .. 53

The Australian Cutworms of the Genus *Agrotis* (Lepidoptera: Noctuidae). By I. F. B. Common 69

A Review of Australian Pyrgotidae (Diptera). By S. J. Paramonov .. 89

Number 2, October 1958

PAGE

Nutrition and Reproduction in the Australian Sheep Blowfly *Lucilia cuprina*. By L. G. Webber 139

A Comparative Study of Lipomatosis in the Salivary Glands of Mammals with Special Reference to the Echidna. By R. Tucker 145

Geographic Variation in the Weebill, *Smicrornis brevirostris* (Gould) (Passeres: Muscicapidae, Malurinae), a Sedentary Species with a Continuous Range. By A. Keast 152

A Review of the Australian Rutelinae (Coleoptera: Scarabaeidae). By P. B. Carne 162

Number 3, December 1958

PAGE

The Choice of Communal Oviposition Sites by the Australian Sheep Blowfly *Lucilia cuprina*. By L. Barton Browne 241

Variation and Speciation in the Australian Campephagidae (Passeres). By A. Keast 248

A Revision of the Pink Bollworms of Cotton (*Pectinophora* Busck (Lepidoptera: Gelechiidae)) and Related Genera in Australia. By I. F. B. Common .. 268

Index to Volume 6 307